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| **TOPICS 4-6** | Topics 4-6 Test | **BLM 2-32** |
| ASSESSMENT |  |

# Goal • Demonstrate understanding of concepts in Topics 4-6.

**What to Do**

Answer the following questions.

**Matching**Write the letter, from column B, in front of the correct definition in column A.

**A B**

\_\_\_\_\_ 1. Plant commonly used to make bread and pasta A. fertilizer

\_\_\_\_\_ 2. Technology in which pipes and sprinklers add water to crops B. summer fallow

\_\_\_\_\_ 3. Nutrients added to soil to improve plant growth C. irrigation

\_\_\_\_\_ 4. Condition in soil caused by high amounts of salt D. wheat

\_\_\_\_\_ 5. Soil created from broken-down plant and animal matter E. bioaccumulation

\_\_\_\_\_ 6. Layers in a cross-section of soil F. salinization

\_\_\_\_\_ 7. Increased concentration of poisons through the food chain G. humus

\_\_\_\_\_ 8. Method of weed control in which no crop is grown but the soil H. horizons

is cultivated periodically during the year

**True or False**

In the space provided, indicate whether each statement is true (T) or false (F).

9. Chemical control of pests is not only effective, it is environmentally friendly.

10. Organic food is produced without the use of chemical pesticides or fertilizers.

11. Some canola strains produced using biotechnology can be sprayed with herbicides and

not be harmed

12. Dandelions are plants that are native to North America.

13. Many weeds are species brought to Canada by humans. Fortunately, these types of

plants are easily controlled.

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**Multiple Choice**

1. Which of the following problems are due to pesticide use?
2. Creating resistant pest species
3. harming non-target organisms
4. residue build-up in soils
5. all of the above
6. Encouraging bluebirds to live on a farm as a means to control grasshoppers is an example of:
7. herbicide use
8. insecticide use
9. biological controls
10. crop rotation
11. Three of the following technologies help to reduce soil erosion. Which one does not belong?
12. irrigation
13. shelter belts
14. zero tillage
15. crop rotation
16. Adding organic matter to soil \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ soil fertility.
17. does not change
18. disturbs
19. decreases
20. increases
21. Nitrogen is a nutrient used by the plant to:
22. produce healthy roots
23. produce green leaves and stems
24. produce flowers and seeds
25. 48-0-0 fertilizer contains 48% of this nutrient:
26. nitrogen
27. phosphorous
28. potassium
29. sulphur
30. Technology by which plants are grown without soil:
31. hydroponics
32. biotechnology
33. crop rotation
34. zero tillage

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1. The most serious problem for soils is:
2. lack of water
3. salinization
4. chemical residues
5. loss of organic matter
6. Parent material in soil refers to:
7. water which brings in nutrients for a new crop of plants each year.
8. the mineral matter (rock, clay, sand) from which soil develops
9. the plants that will create more soil when they die and decompose
10. humus
11. Topsoil is either brown or black in colour. Its darkness depends on the:
12. horizon
13. moisture
14. amount of organic matter
15. erosion factor

**Short Answer**

1. (a) Define monoculture.

(b) Give an advantage of monocultures.

(c) Give a disadvantage of monocultures.

1. Draw a food chain that shows how bioaccumulation can occur.

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1. List:  
   (a) three plants grown for food in Alberta

(b) three plants grown for fibre.